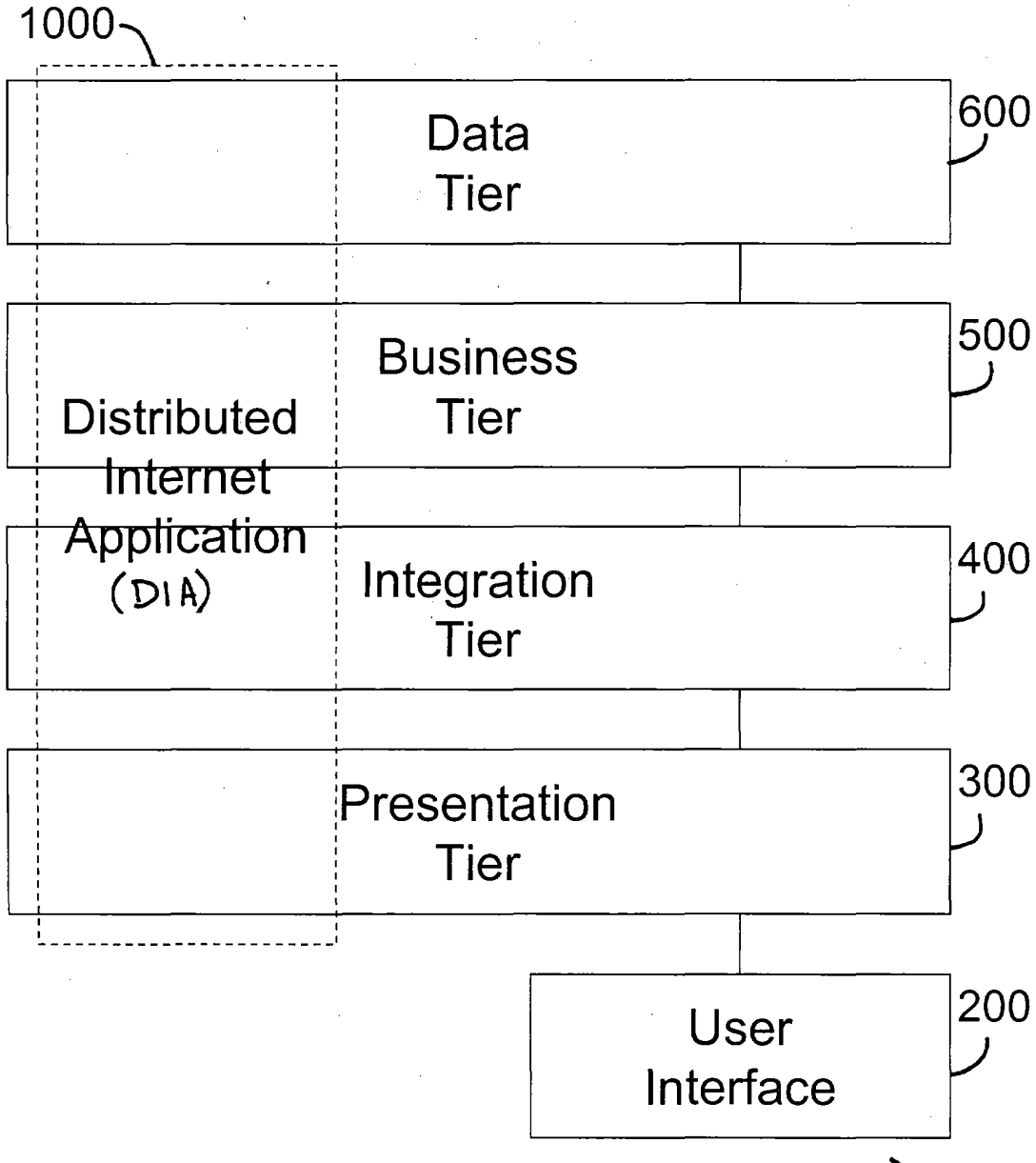
1000
Data Tier
600
Business Tier
500
Distributed Internet Application (DIA)
Integration Tier
400
Presentation Tier
300
User Interface
200
100

Figure 1

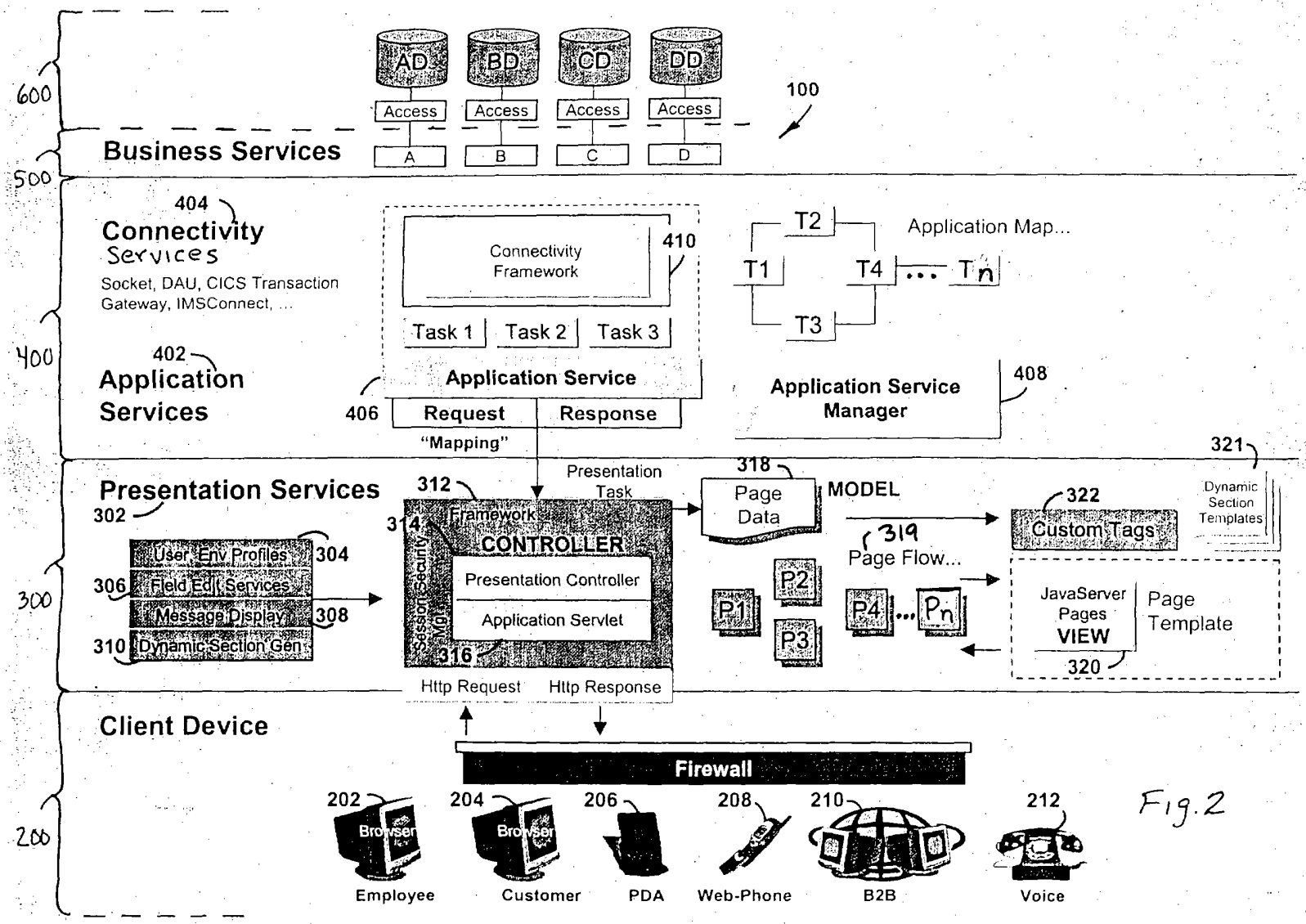

Fig. 2

Ellis, Danny D. et al.
TITLE: A SYSTEM AND METHOD FOR BUILDING A DISTRIBUTED INTERNET APPLICATION
Docket No. 11857.66
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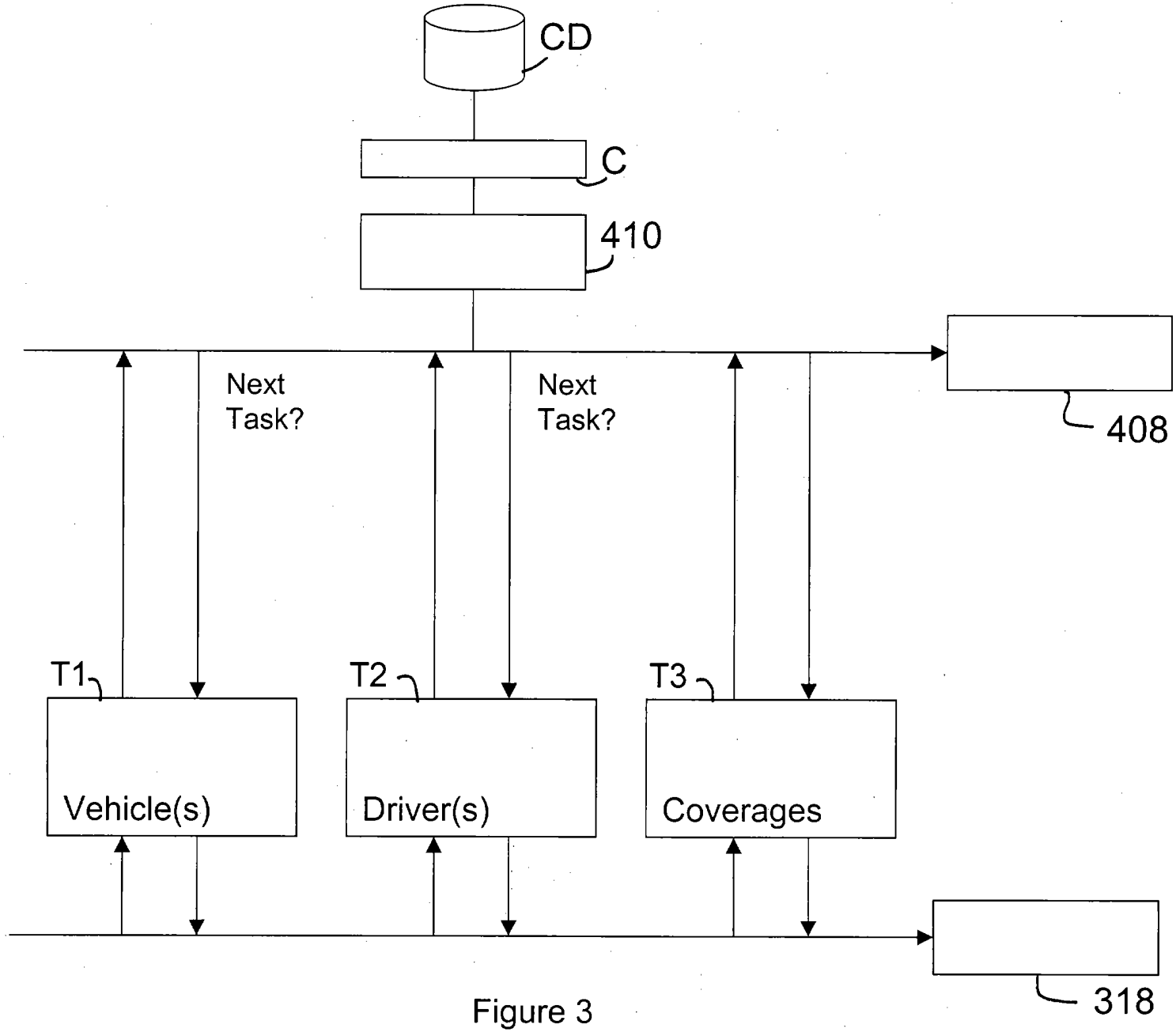
CD
C
410
Next Task?
Next Task?
408
T1
T2
T3
Vehicle(s)
Driver(s)
Coverages
318

Figure 3

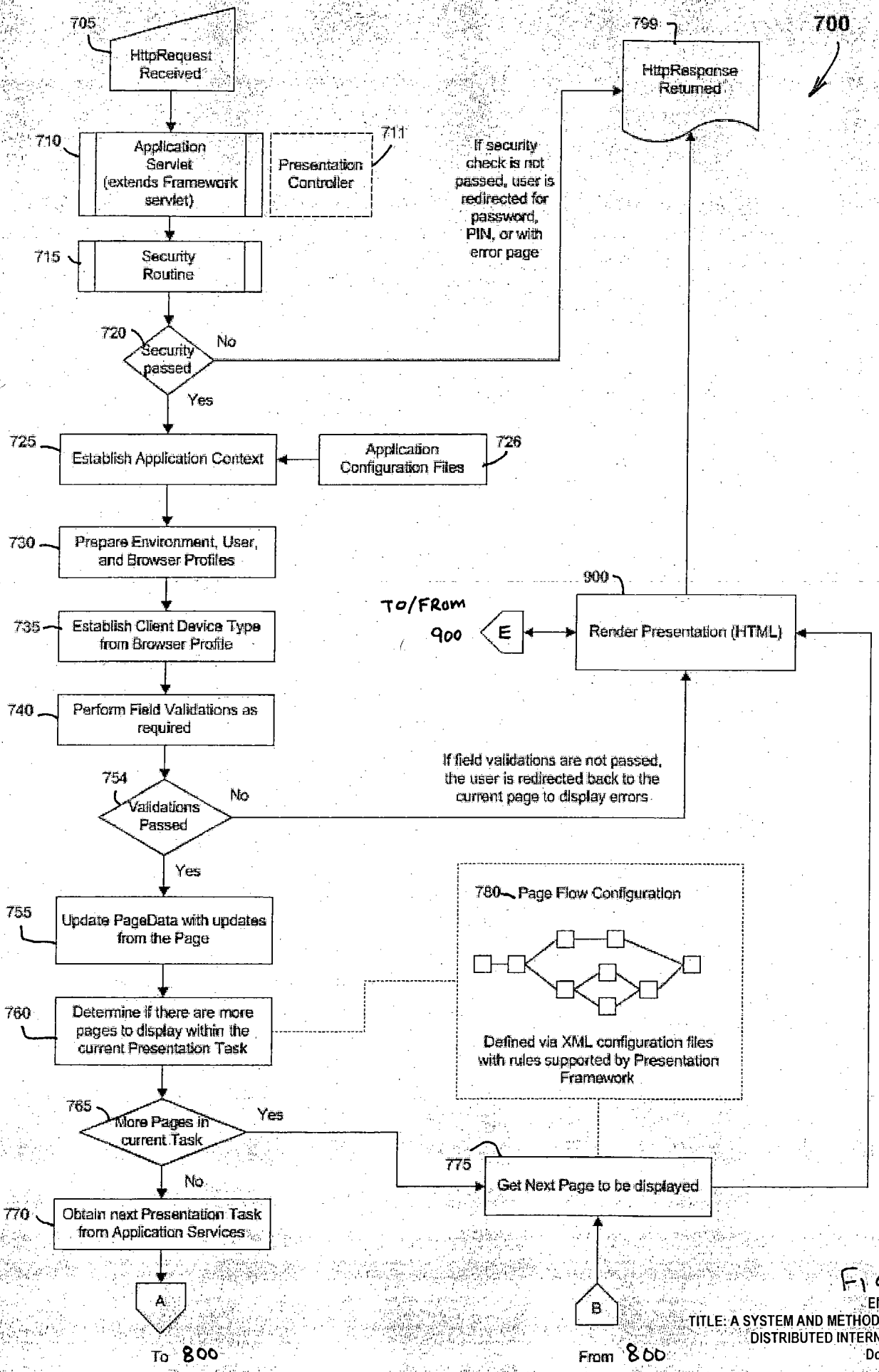
705
HttpRequest Received
710
Application Servlet (extends Framework servlet)
711
Presentation Controller
715
Security Routine
720
Security passed
No
Yes
If security check is not passed, user is redirected for password, PIN, or with error page
799
HttpResponse Returned
700
725
Establish Application Context
726
Application Configuration Files
730
Prepare Environment, User, and Browser Profiles
735
Establish Client Device Type from Browser Profile
740
Perform Field Validations as required
754
Validations Passed
No
Yes
If field validations are not passed, the user is redirected back to the current page to display errors
900
To/From 900
E
Render Presentation (HTML)
780
Page Flow Configuration
Defined via XML configuration files with rules supported by Presentation Framework
755
Update PageData with updates from the Page
760
Determine if there are more pages to display within the current Presentation Task
765
More Pages in current Task
Yes
No
775
Get Next Page to be displayed
770
Obtain next Presentation Task from Application Services
A
To 800
B
From 800

Fig. 4

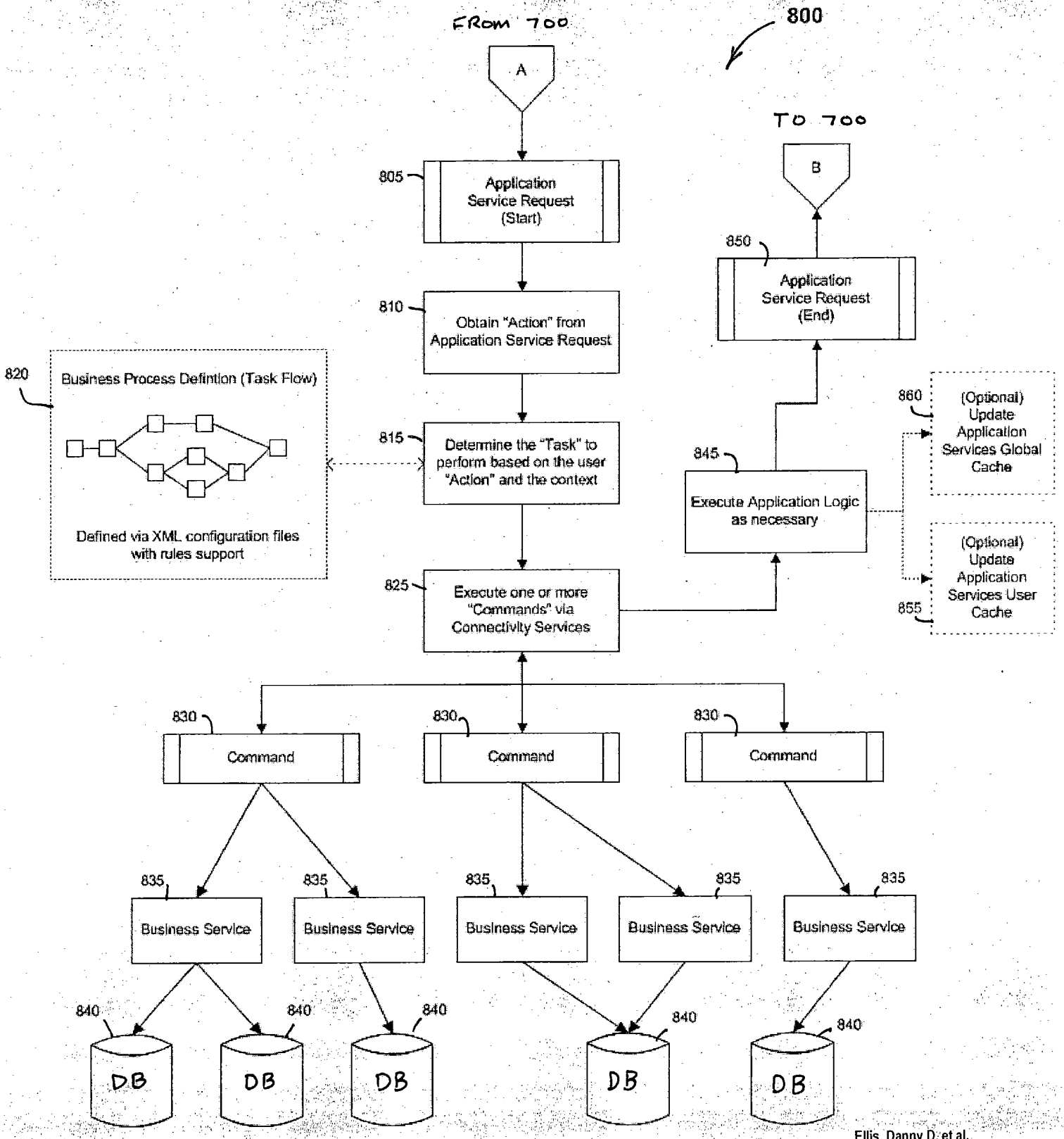
FROM 700
800
A
TO 700
B
805
Application Service Request (Start)
850
Application Service Request (End)
810
Obtain "Action" from Application Service Request
820
Business Process Definition (Task Flow)
Defined via XML configuration files with rules support
815
Determine the "Task" to perform based on the user "Action" and the context
845
Execute Application Logic as necessary
860
(Optional) Update Application Services Global Cache
855
(Optional) Update Application Services User Cache
825
Execute one or more "Commands" via Connectivity Services
830
Command
835
Business Service
840
DB

Fig. 5

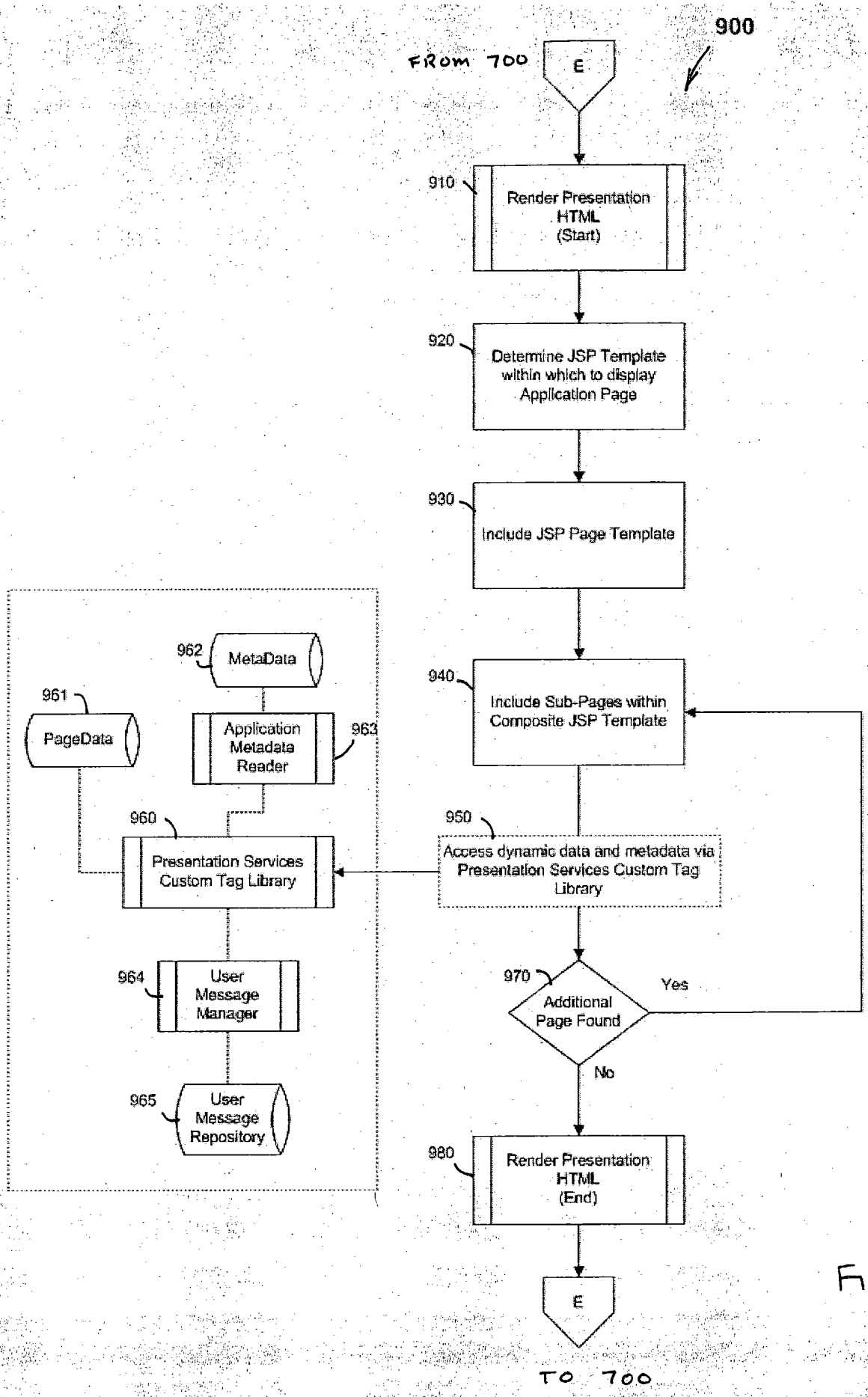
900
FROM 700
E
910
Render Presentation HTML (Start)
920
Determine JSP Template within which to display Application Page
930
Include JSP Page Template
940
Include Sub-Pages within Composite JSP Template
950
Access dynamic data and metadata via Presentation Services Custom Tag Library
960
Presentation Services Custom Tag Library
961
PageData
962
MetaData
963
Application Metadata Reader
964
User Message Manager
965
User Message Repository
970
Additional Page Found
Yes
No
980
Render Presentation HTML (End)
E
TO 700

Fig. 6